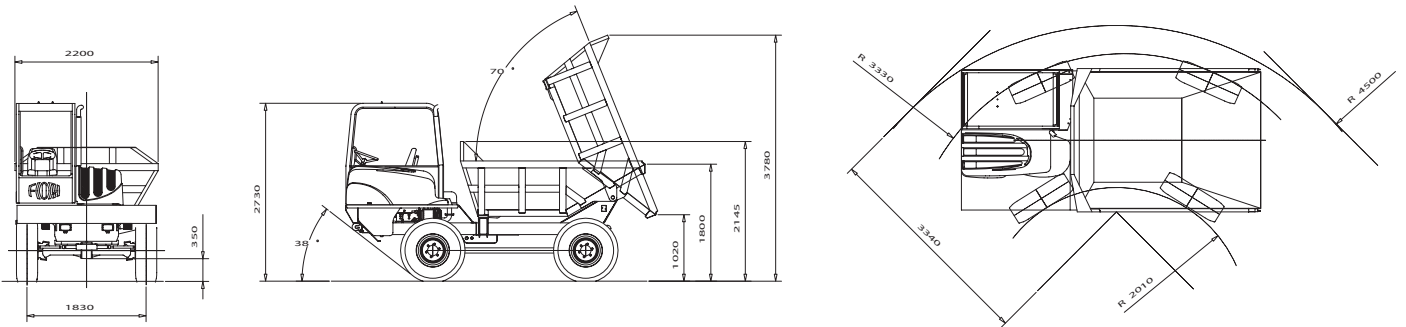




Dumper D 70



DIESEL ENGINE

Make/Type: PERKINS 1104C-44 "FASTRAM" direct fuel injection turbo aspirated diesel engine.
Max power 64 KW (87 HP) at 2,400 rpm.
Max torque 302 Nm at 1,400 rpm.
N 4 cylinders. Displacement 4,400 cc.
Bore and stroke 105 x 127 mm.
Dry air cartridge filter. Water-cooled.
Conforms with exhaust emission directive 97/68 CE and EPA regulations.

ELECTRICAL SYSTEM

Starter motor 12V - 2.8 kW.
Alternator 12 V - 55 Ampere.
Battery 12 V - 132 Amp/h - (600 Amp).
Electrical engine ignition/stop device.
Plug heater cold starting device.

DRIVE

"Automotive" hydrostatic transmission with variable-displacement pump and automatic variable-displacement hydraulic motor.
Drive enable safety device on the accelerator pedal. Air/oil heat exchanger for oil cooling.
Mechanical 2-speed gearbox (with electrohydraulic selector for working speed and drive speed), enbloc with the rear axle.

Speed (km/h)

1 st 0 - 3.3 Km/h 0 - 3.3 Km/h
2 nd 0 - 8.0 Km/h 0 - 8.0 Km/h
3 rd 0 - 10.0 Km/h 0 - 10.0 Km/h
4 th 0 - 25.0 Km/h 0 - 25.0 Km/h
Traction / weight ratio: 50 %

STEERING

Hydrostatic (ORBITROL type), fed by independent pump, with steering wheel control. Swept volume: 100 cc - Max working pressure: 150 bar
Power steering pump flow rate 21 l/min
4-wheel steering by means of n°2 double steering cylinders acting as connection rods.
In-cab steering mode selector. Available modes: 2- wheel steering/4- wheel steering/"Crabbing".
Minimum inside wheel turning radius: 2,020 mm
Minimum outside wheel turning radius: 3,330 mm

AXLES

FRONT: oscillating ($\pm 7,5^\circ$), steering and bearing type with planetary reduction at the wheel hubs.
REAR: steering, bearing type with planetary reductions at the wheel hubs.

TYRES

Front and rear tyres 12.5/18

BRAKES

SERVICE AND EMERGENCY BRAKES: disc-brakes in oil bath housed inside the hubs, acting on all 4 wheels, fed by independent pump on double circuit.
PARKING BRAKE: Drum brake on front axle with lever mechanical control.

CHASSIS

Electrically welded high-tensile steel chassis.
Hydraulic control for skip lift up by means of hydraulic double-action jacks.

HYDRAULIC SYSTEM

Gear pump - 1 way control valve
Max flow-rate: 47 l/min
Max pressure: 180 bar
Oil filter replaceable from the outside.
Pressurized closed circuit suction system.

SERVICE CAPACITIES

Fuel tank: 90 litres
Total hydraulic oil: 100 litres
Diesel engine oil: 7,5 litres

WEIGHTS AND CAPACITIES

On-road set-up with cab roof: 4,100 Kg
Load-carrying capacity (at max speed): 7,000 Kg
Skip capacity struck: 3,000 litres
Skip capacity heaped (SAE): 4,000 litres

DRIVING POST

Open safety ROPS-FOPS cab. Swivel, mounted on a ball-bearing center-plate; anatomically designed, fully adjustable seat with safety belt.
Instrumentation: engine ignition/off switch; cold starting device; hour meter. Warning lights: engine coolant temperature, hydraulic filter

clogged, preheating, generator charge, direction indicators, clearance lights, low-beams, engine oil pressure, fuel level, beacon, "warning". Headlight and direction indicators switch. Fuses and relays box (water proof).

MEASURES

Minimum transfer length: 4,600 mm
Max width: 2,200 mm
Max transfer height: 2,730 mm
Front pitch: 38°
Ground clearance (below differentials): 350 mm